WE CLAIM:

1. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first and a second surface on an outer side of the elongated conduit;

a first sensing system configured to sense a physiological property of tissue proximate to the first surface; and

a first inflatable compartment associated with the elongated conduit.

- 2. The surgical drain of claim 1, wherein the first inflatable compartment is proximate to the second surface.
- 3. The surgical drain of claim 1, wherein the first inflatable compartment is within the elongated conduit.
- 4. The surgical drain of claim 1, wherein the first sensing system and first inflatable compartment are positioned at about the same position along a drain length.
- 5. The surgical drain of claim 1, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 6. The surgical drain of claim 1, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 7. The surgical drain of claim 1, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 8. The surgical drain of claim 1, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 9. The surgical drain of claim 1, further comprising a pump in communication with an interior portion of the inflatable compartment.

- 10. The surgical drain of claim 1, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 11. The surgical drain of claim 1, wherein the surgical drain further includes an anchor configured to stabilize the position of the surgical drain relative to tissue in the body cavity.
- 12. The surgical drain of claim 1, wherein the surgical drain further includes a projection extending from the outer side, wherein the projection is configured for insertion into tissue in the body cavity.
- 13. The surgical drain of claim 1, wherein the surgical drain further includes a first loop extending from the outer side.
- 14. The surgical drain of claim 1, wherein the surgical drain further includes adhesive on at least a portion of the outer side.
- 15. The surgical drain of claim 1, wherein the surgical drain further includes a flap extending from the outer side.
 - 16. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first surface located on an outer side of the elongated conduit and a second surface located on an outer side of the elongated conduit;

- a projection extending from the first surface; and
- a first sensing system configured to sense a physiological property of the tissue proximate the first surface.
- 17. The surgical drain of claim 16, wherein the surgical drain further comprises an inflatable compartment proximate to the second surface.
- 18. The surgical drain of claim 1, wherein the surgical drain comprises transparent material.
- 19. The surgical drain of claim 17, wherein the first inflatable compartment is proximate to the second surface.

- 20. The surgical drain of claim 17, wherein the first inflatable compartment is within the elongated conduit.
- 21. The surgical drain of claim 17, wherein the first sensing system and first inflatable compartment are positioned at about the same position along a drain length.
- 22. The surgical drain of claim 16, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 23. The surgical drain of claim 16, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 24. The surgical drain of claim 16, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 25. The surgical drain of claim 16, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 26. The surgical drain of claim 17, further comprising a pump in communication with an interior portion of the inflatable compartment.
- 27. The surgical drain of claim 17, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 28. The surgical drain of claim 16, wherein the surgical drain further includes an anchor configured to stabilize the position of the surgical drain relative to tissue in the body cavity.
- 29. The surgical drain of claim 16, wherein the surgical drain further includes a projection extending from the outer side, wherein the projection is configured for insertion into tissue in the body cavity.
- 30. The surgical drain of claim 16, wherein the surgical drain further includes a first loop extending from the outer side.

- 31. The surgical drain of claim 16, wherein the surgical drain further includes adhesive on at least a portion of the outer side.
- 32. The surgical drain of claim 16, wherein the surgical drain further includes a flap extending from the outer side.
 - 33. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity; and

at least one anchor configured to stabilize the elongated conduit with respect to a tissue in the body cavity.

- 34. The surgical drain of claim 33, further comprising a first sensing system configured to sense a physiological property of a tissue proximate to the elongated conduit.
- 35. The surgical drain of claim 33, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 36. The surgical drain of claim 33, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 37. The surgical drain of claim 33, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 38. The surgical drain of claim 33, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 39. The surgical drain of claim 33, wherein the surgical drain further comprises an inflatable compartment.
- 40. The surgical drain of claim 33, further comprising a pump in communication with an interior portion of the inflatable compartment.

- 41. The surgical drain of claim 33, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 42. The surgical drain of claim 33, wherein surgical drain comprises transparent material.

43. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including an outer side and a projection extending from the drain outer surface configured for insertion into tissue in the body cavity.

- 44. The surgical drain of claim 43, further comprising a first sensing system configured to sense a physiological property of a tissue proximate to the elongated conduit.
- 45. The surgical drain of claim 43, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 46. The surgical drain of claim 43, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 47. The surgical drain of claim 43, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 48. The surgical drain of claim 43, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 49. The surgical drain of claim 43, wherein the surgical drain further comprises an inflatable compartment.
- 50. The surgical drain of claim 43, further comprising a pump in communication with an interior portion of the inflatable compartment.

- 51. The surgical drain of claim 43, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 52. The surgical drain of claim 43, wherein surgical drain comprises transparent material.
 - 53. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including an outer side and a first loop extending from the drain outer side.

- 54. The surgical drain of claim 53, further comprising a first sensing system configured to sense a physiological property of a tissue proximate to the elongated conduit.
- 55. The surgical drain of claim 53, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 56. The surgical drain of claim 53, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 57. The surgical drain of claim 53, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 58. The surgical drain of claim 53, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 59. The surgical drain of claim 53, wherein the surgical drain further comprises an inflatable compartment.
- 60. The surgical drain of claim 53, further comprising a pump in communication with an interior portion of the inflatable compartment.

- 61. The surgical drain of claim 53, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 62. The surgical drain of claim 53, wherein surgical drain comprises transparent material.
 - 63. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including an outer side and adhesive on at least a portion of the outer side.

- 64. The surgical drain of claim 63, wherein the adhesive is a pressure sensitive adhesive or fibrin glue.
- 65. The surgical drain of claim 63, wherein at least the adhesive comprises transparent material.
- 66. The surgical drain of claim 63, further comprising a first sensing system configured to sense a physiological property of a tissue proximate to the elongated conduit.
- 67. The surgical drain of claim 63, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 68. The surgical drain of claim 63, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 69. The surgical drain of claim 63, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 70. The surgical drain of claim 63, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.

- 71. The surgical drain of claim 63, wherein the surgical drain further comprises an inflatable compartment.
- 72. The surgical drain of claim 63, further comprising a pump in communication with an interior portion of the inflatable compartment.
- 73. The surgical drain of claim 63, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 74. The surgical drain of claim 63, wherein surgical drain comprises transparent material.

75. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including an outer side and a flap extending from the outer side.

- 76. The surgical drain of claim 75, wherein the flap further has a first edge, wherein the first edge has a thickness greater the thickness of the flap.
- 77. The surgical drain of claim 75 having a sensing system for detecting a physiological property of tissue proximate to the flap.
- 78. The surgical drain of claim 75, further having adhesive on at least a portion of the outer side or flap.
- 79. The surgical drain of claim 75, further comprising a first sensing system configured to sense a physiological property of a tissue proximate to the elongated conduit.
- 80. The surgical drain of claim 75, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 81. The surgical drain of claim 75, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.

- 82. The surgical drain of claim 75, comprising a second sensing system configured to sense a different physiological property than the first sensing system.
- 83. The surgical drain of claim 75, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 84. The surgical drain of claim 75, wherein the surgical drain further comprises an inflatable compartment.
- 85. The surgical drain of claim 75, further comprising a pump in communication with an interior portion of the inflatable compartment.
- 86. The surgical drain of claim 75, further comprising a pressure monitor in communication with the interior portion of the inflatable chamber.
- 87. The surgical drain of claim 75, wherein surgical drain comprises transparent material.
 - 88. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, wherein at least a portion of the elongated conduit comprises an optically transparent material; and

a first sensing system configured to sense a physiological property of any substance proximate to the elongated conduit.

- 89. The surgical drain of claim 88, wherein the physiological property is selected from the group comprising: temperature, oxygenation, perfusion, pH, NADH levels, biochemical composition, drug concentrations, turgidity or pressure.
- 90. The surgical drain of claim 88, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.

- 91. The surgical drain of claim 88, wherein at least portions of the first and second sensing systems are embedded within the conduit behind material that is optically transparent.
- 92. The surgical drain of claim 88, further including a display configured to depict data corresponding to the physiological property sensed by the first or second sensing systems.
- 93. The surgical drain of claim 88, wherein the first sensing system includes a component that is affixed to the conduit.
- 94. The surgical drain of claim 88, wherein the component is embedded in the conduit.
 - 95. The surgical drain of claim 88, wherein the component includes a sensor.
- 96. The surgical drain of claim 88, wherein the component includes an optical fiber.
- 97. The surgical drain of claim 88, wherein the surgical drain further includes an anchor configured to stabilize the position of the surgical drain relative to tissue in the body cavity.
- 98. The surgical drain of claim 88, wherein the surgical drain further includes a projection extending from the outer side, wherein the projection is configured for insertion into tissue in the body cavity.
- 99. The surgical drain of claim 88, wherein the surgical drain further includes a first loop extending from the outer side.
- 100. The surgical drain of claim 88, wherein the surgical drain further includes adhesive on at least a portion of the outer side.
- 101. The surgical drain of claim 88, wherein the surgical drain further includes a flap extending from the outer side.
- 102. The surgical drain of claim 88, further comprising a first inflatable compartment associated with the elongated circuit.